

ABSTRACT OF THE DISCLOSURE

A vehicle brake system includes a master cylinder having a housing defining a bore therein. A boost piston and a primary piston are slidably disposed in the bore. The master cylinder has a boost chamber defined at least in part by the boost piston and the housing. The system further includes a source of pressurized fluid and a boost valve operable to supply fluid from the source of pressurized fluid to the boost chamber for advancing the boost piston and the primary piston in the master cylinder. According to one aspect of the invention, the boost valve is housed in the boost piston. According to another aspect of the invention, the brake system includes a switchable travel rate feature. According to yet another aspect of the invention, the master cylinder includes a jump in feature. Additional features of the invention are also described herein.